

Attorney:
RND/MKG
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Application:
System, Method And
Article Of
Manufacture To
Determine And
Communicate
Optical Lens Sizing
And Prescription
Information

Client:
Tom Yancy

File Number:
TOM995/99795

Sheet Number:
of

Date:
11/23/99

Revision:
3

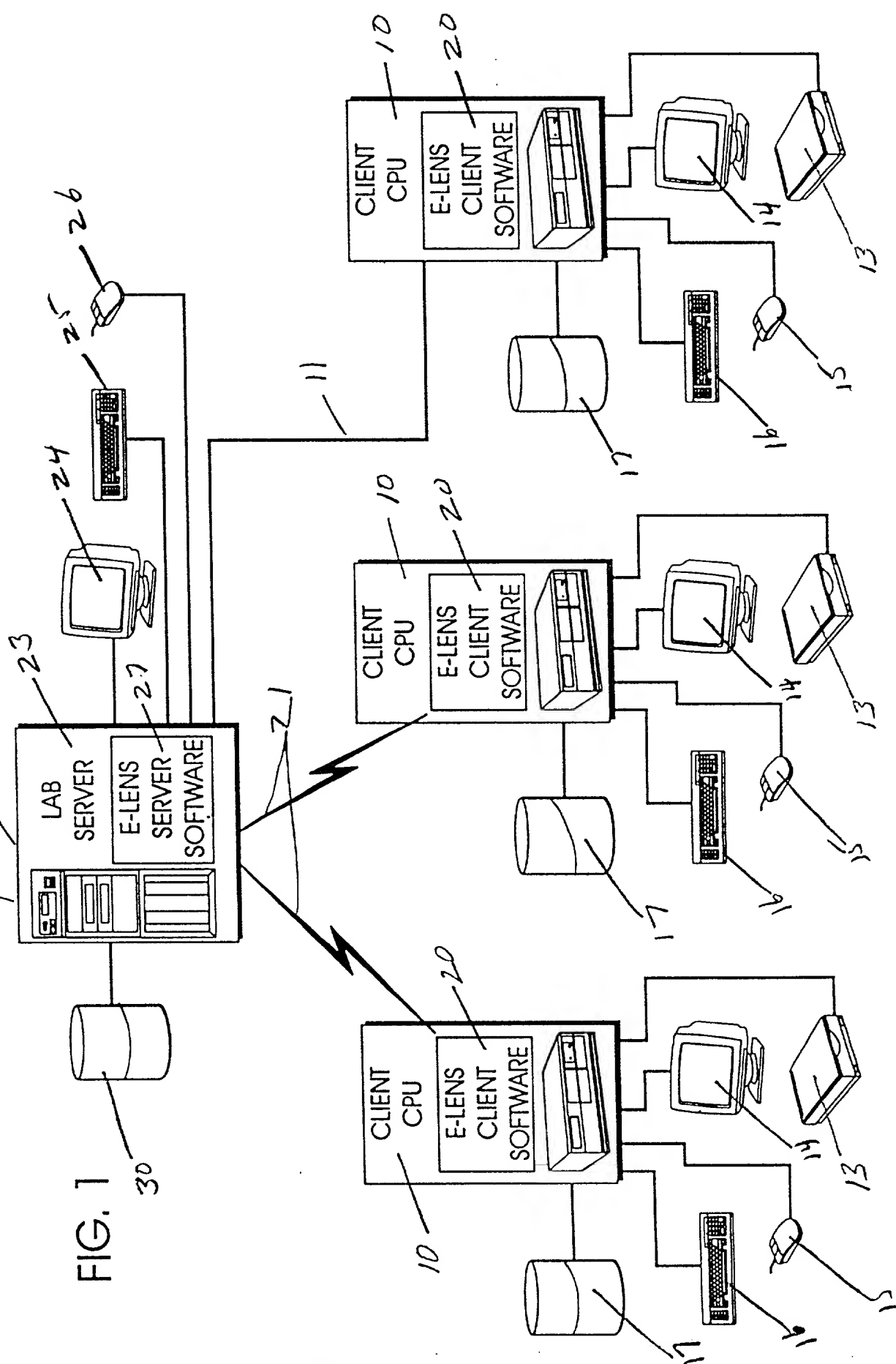


FIG. 1

Figure 2

33

30

36

32

31

Patient _____

Tray _____ Date _____

Notes _____

e.lens
Electronic Lens Processing

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FIGURE 3

Determining Scanned Image First Axis Centerpoint of Reference

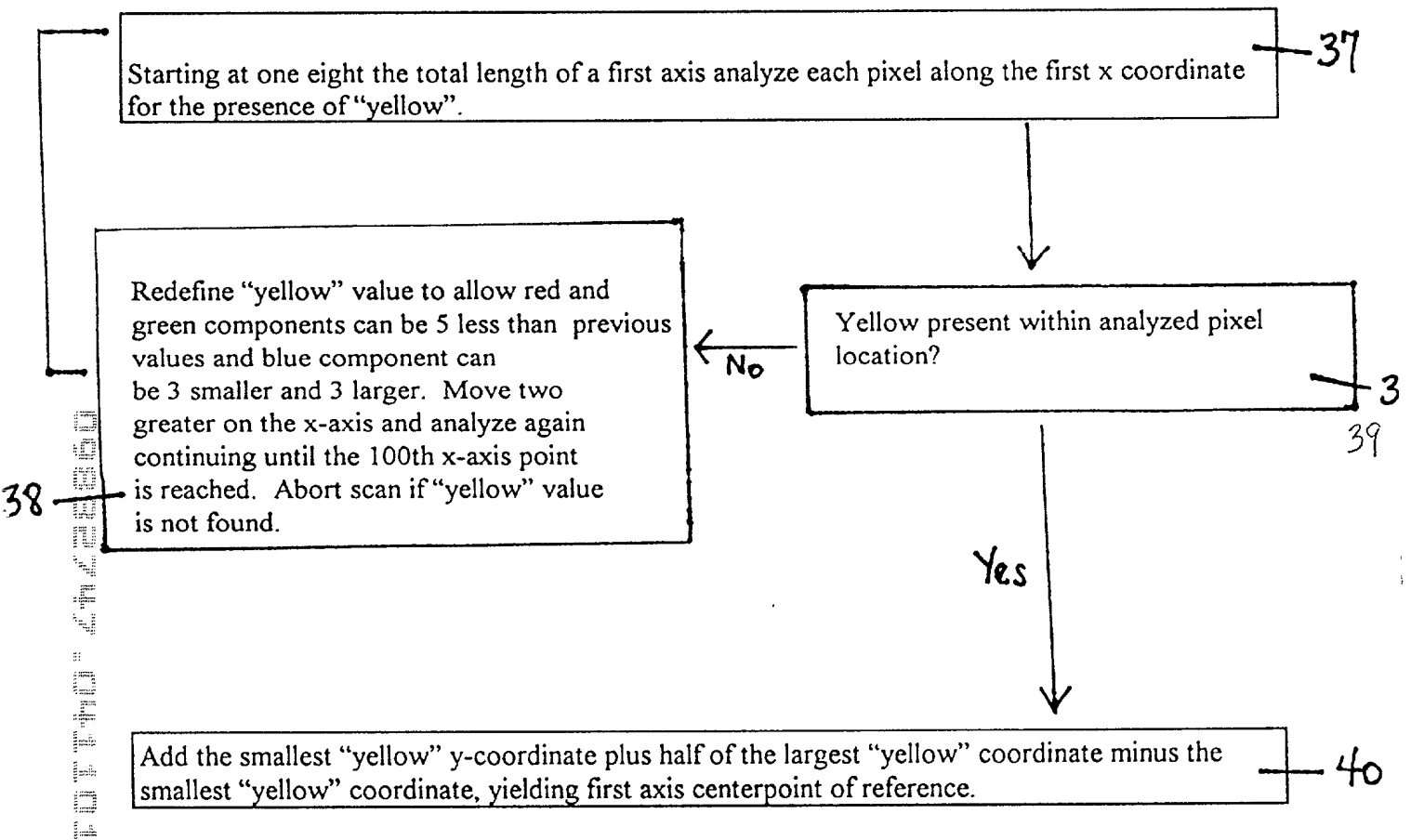


FIGURE 4

Determining Scanned Image Second Axis Centerpoint of Reference

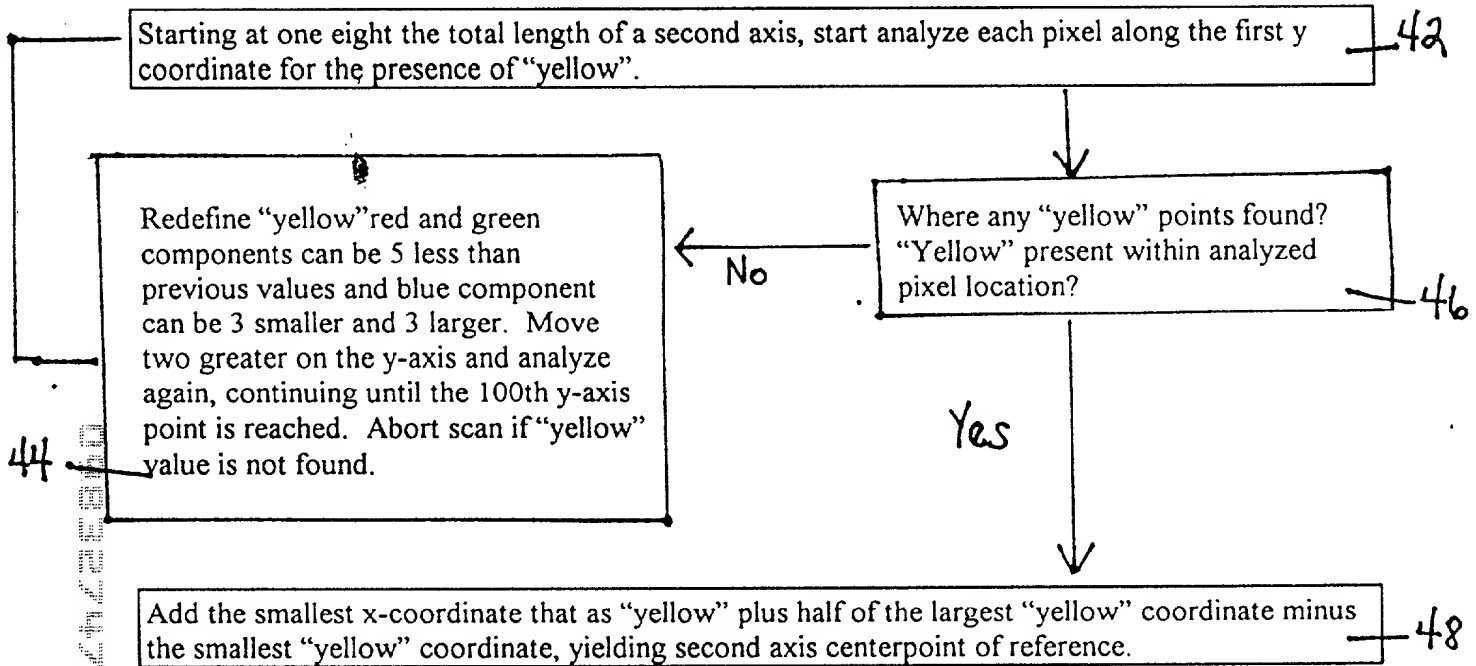


FIGURE 5

Determining a Starting Radius

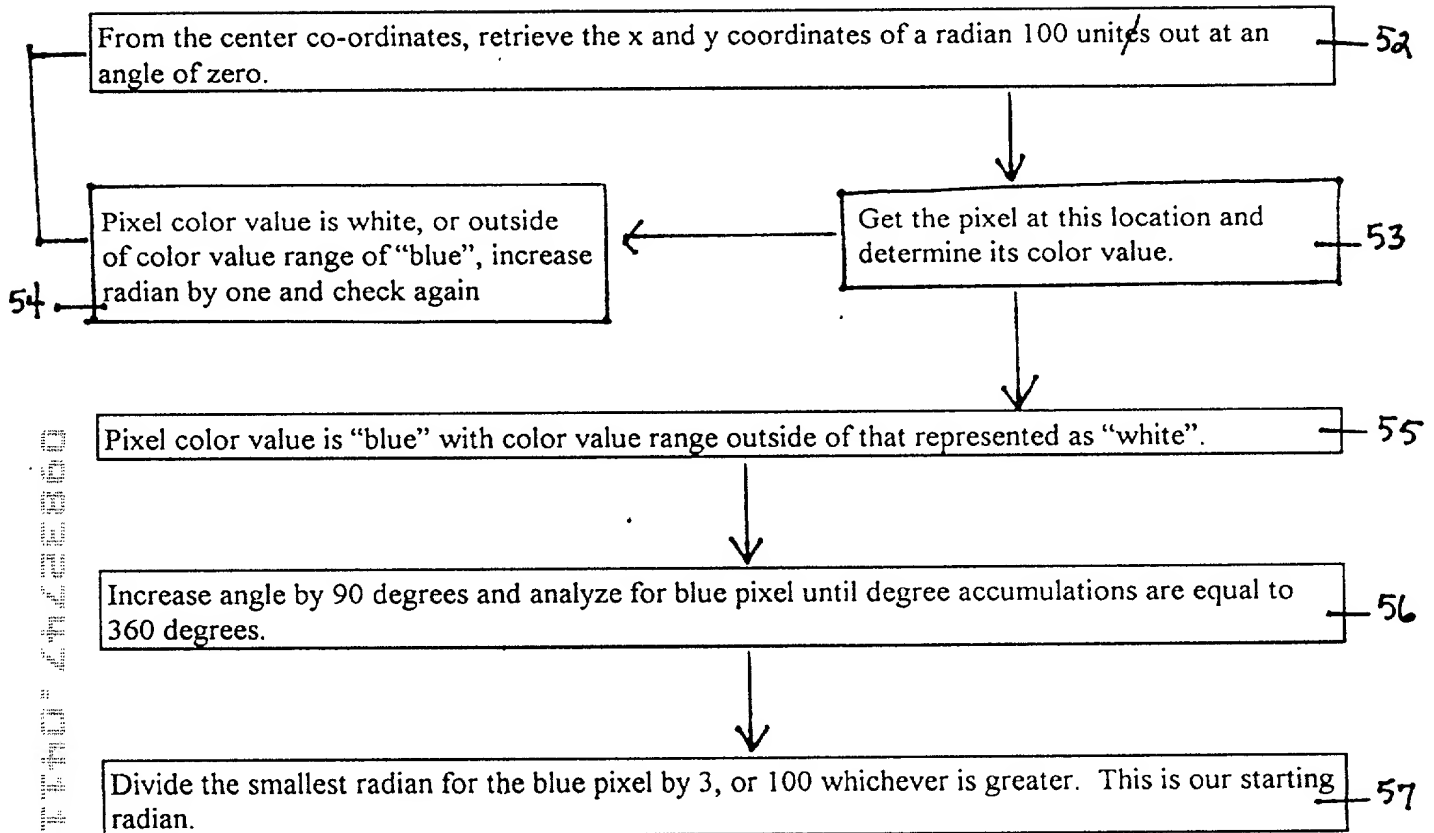


FIGURE 6

Centering a Scanned Image Shape

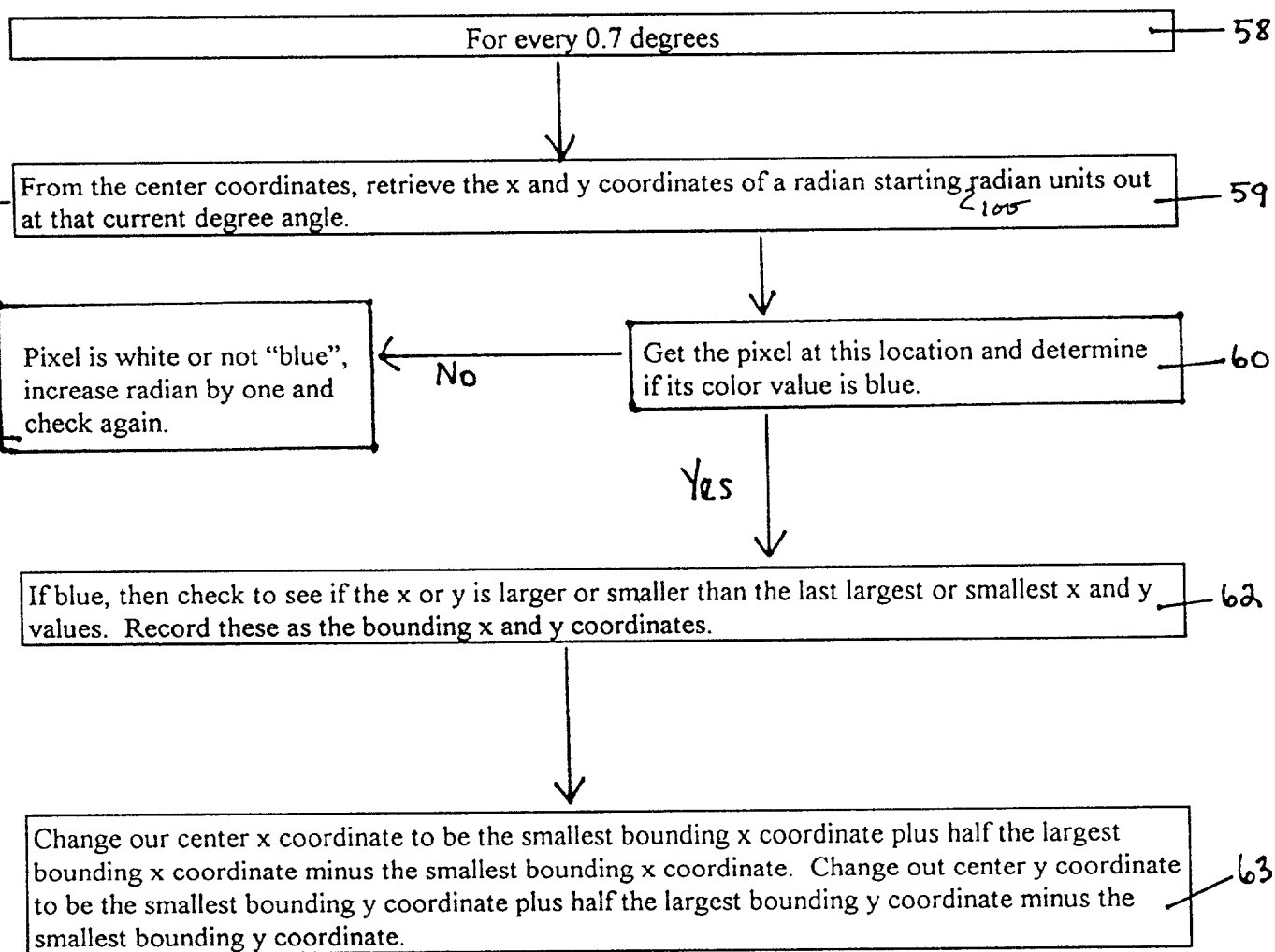


FIGURE 7

Determining a Scanned Image Radial Shape

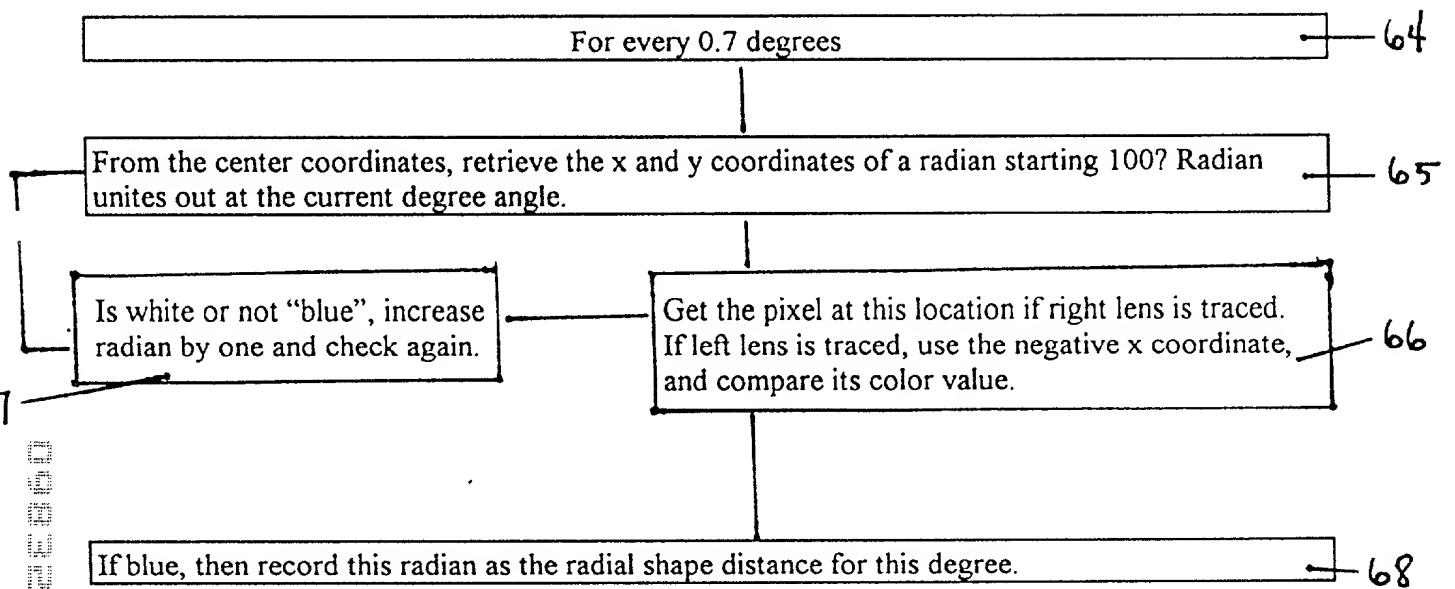


FIGURE 8

Determining a Scanned Image Radial Size

For every 0.7 degrees

72

For the radial shape distance for this degree, subtract the figure provided by calibration. This reduction eliminates the extra size that the pen creates.

Divide each radian by the configurable DPI setting of the scanner, example 400, this is our conversion to inches.

73

Convert inches to millimeters by dividing by 0.039370. Then multiply by 100. This gives each radian in mm*100.

FIGURE 9

Smoothing a Scanned Image Radial Shape

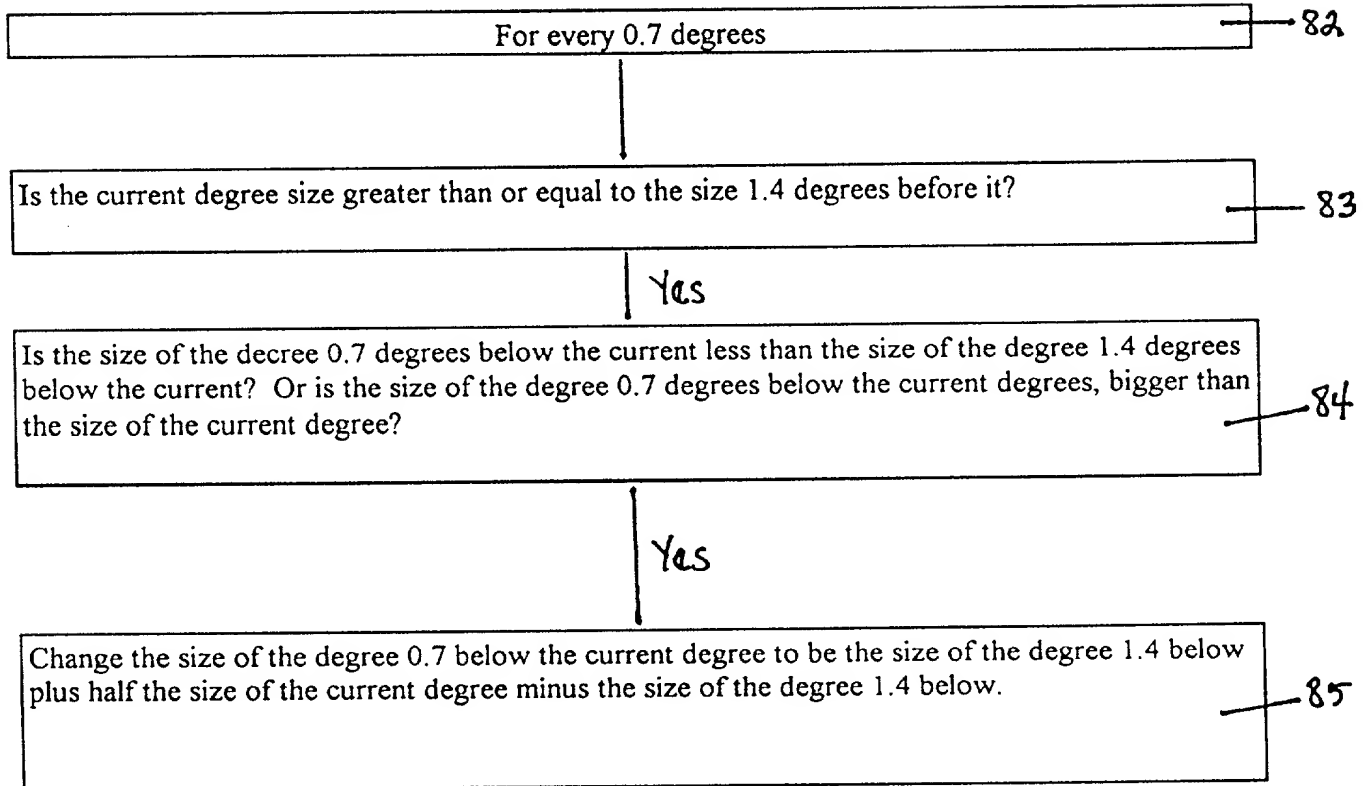


FIGURE 10

Modify Size of Derived Radial Shape

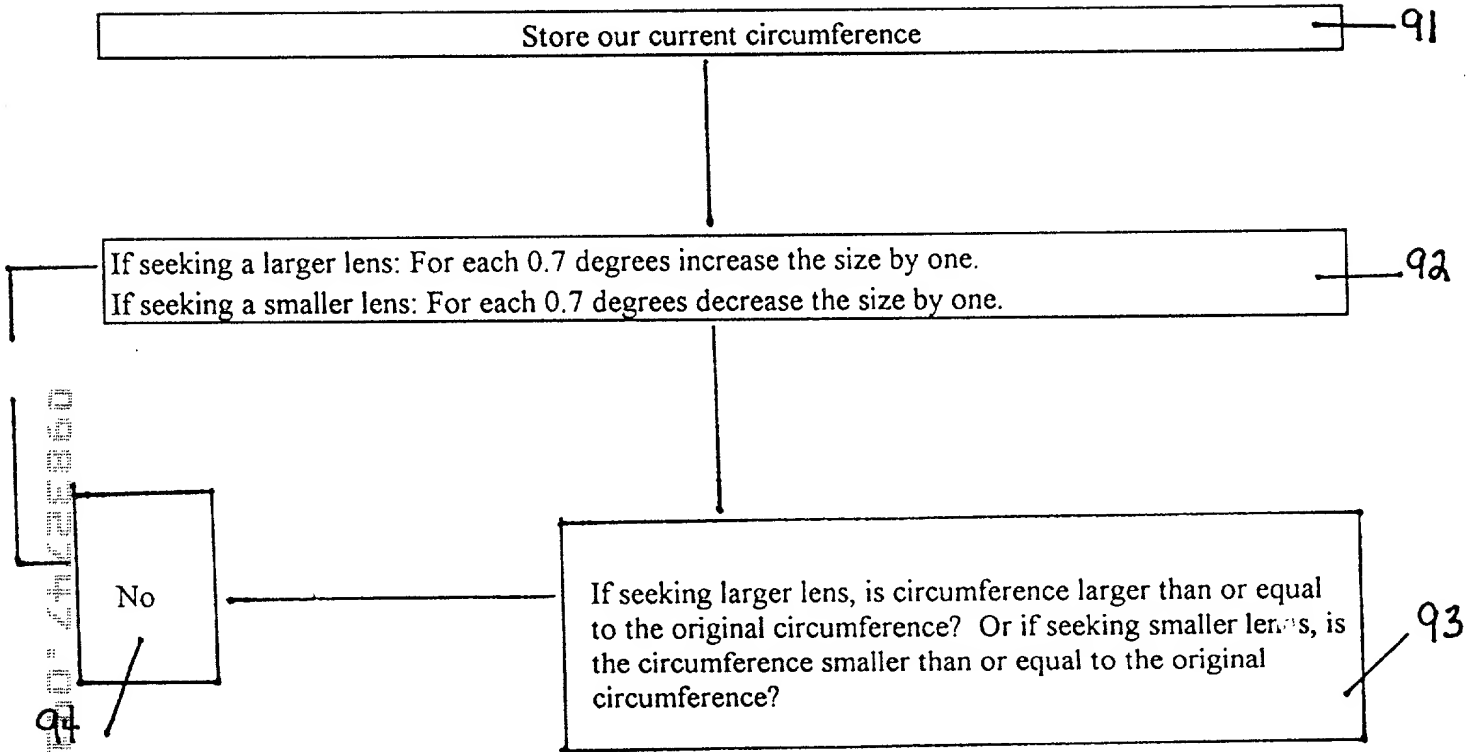
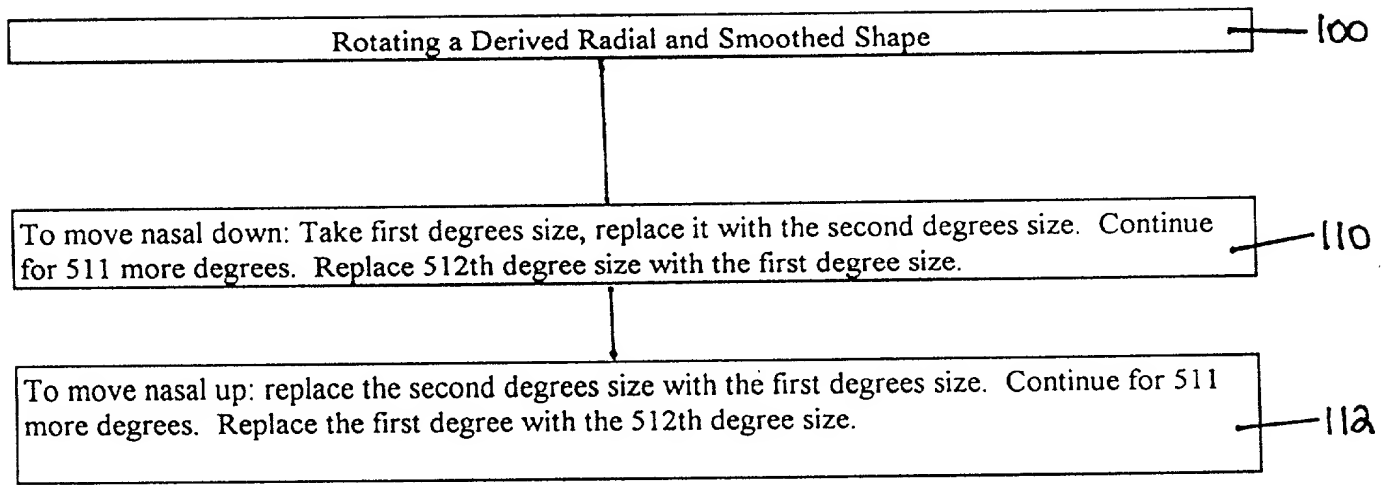


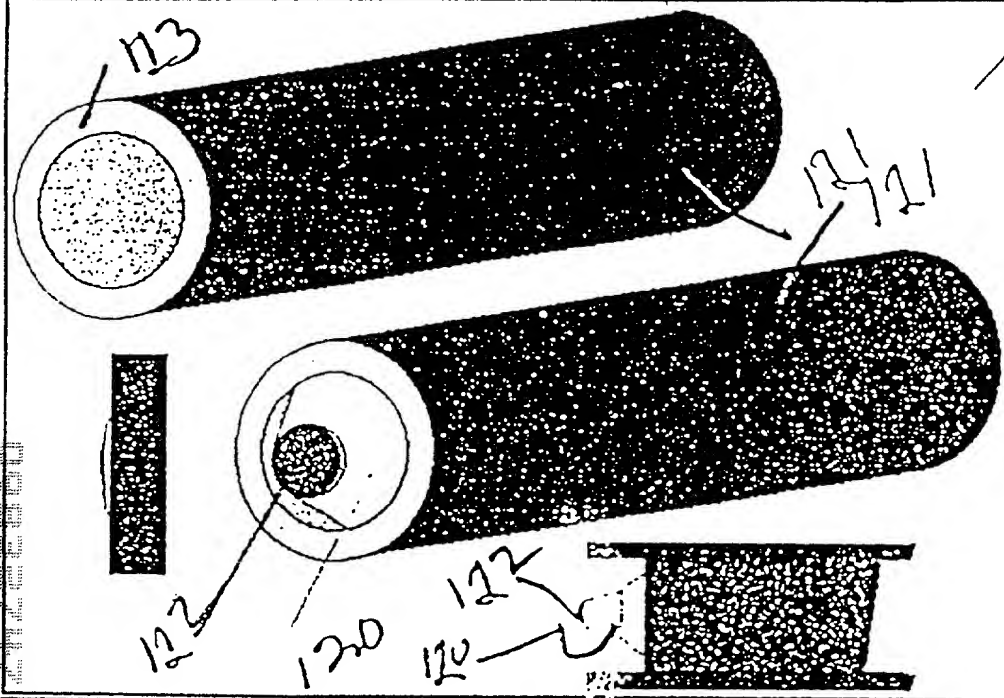
FIGURE 11



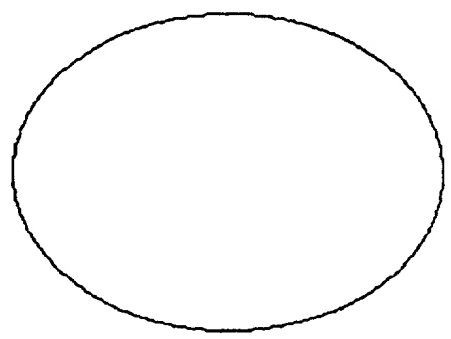
Downloaded from www.ascelibrary.org

Fig 12/11

Description
 Pen
 a pla
 cons
 edge
 pres



Place trial le
 paper.



[illegible]

Figure 13

① MAIN SCREEN

| e.lens Order(Specialty Optical Services) | | | | | | | | | |
|--|-----------------------------|------------------------------------|-------------------------------|--|--|------------------|--|--------|------|
| Patient Name | Smith, Mary | | Title | | <input type="radio"/> Both <input checked="" type="radio"/> Right <input type="radio"/> Left | | | | |
| <input checked="" type="radio"/> Lenses only | <input type="radio"/> Uncut | <input type="radio"/> Lab supplied | <input type="radio"/> To come | <input checked="" type="radio"/> Glass | | | | | |
| Frame Name | Shawna | | Shape | | | | | | |
| Manufacturer | Kenmark | | Model | | | | | 511 | |
| Frame Color | Demi | | Type | Metal | | | | | |
| Eye Size | 57 | | DBL | 19.00 | | | | Temple | 0.00 |
| Material | 01 CR-39 | | Type | 02 Bifocal | | | | | |
| Lens | 02 FT 28 | | Color | 01 Transitions III G | | | | | |
| Lab Tint | | | Type | | | | | | |
| Sph | Cyl | Axis | ADD | Bx Add | IOP PD | Nx YPD | Dpt Center | | |
| R -0.25 | +0.00 | 180 | +1.00 | +0.00 | +30.00 | +28.50 | +0.00 | | |
| L -0.50 | -1.00 | 080 | +1.00 | +0.00 | +30.00 | +28.50 | +0.00 | | |
| Seg Height | | Horiz Prism | | Vert Prism | | Gind | | | |
| R +25.00 | High | +0.00 | | +0.00 | | Thin | | | |
| L +25.00 | High | +0.00 | | +0.00 | | Edge | 02 Polish Edge | | |
| Comment | | | | | | | <input checked="" type="checkbox"/> Printing | | |
| Save | | Misc/Coatings | | Advanced | | Add Patient Info | Abort | | |

② NEW ORDER & EDIT SCREEN

Figure 14

e.lens Order(Specialty Optical Services)


| | | | | |
|--|-----------------------|--|---------------|--|
|  | | DBL 17.0 Crc 131.09 A 48.7 B 32.8 E.D. 46.3 | | + Optical center + Geometric center + Seg height |
| | | Opt Cen R +18.41 L +18.41 Geo Cen +18.41 Seg H R +14.00 L +14.00 | | |
| Nasal Up | Nasal Down | Rotation: 0 Size: 0 | Increase Size | Decrease Size |
| DBL 17.00 | FPD R +30.00 L +30.00 | NPD R +28.50 L +28.50 | | |
| Return with Modifications | | Abort | | |

Figure 16